

IN THE CLAIMS

Claims 1-50 (cancelled).

51. (New) A multi-site injection system comprising:

a rotatable drum having an outer surface with microprotrusions thereon, said microprotrusions having lumens therethrough for enabling transport of a medicament therethrough from an inner surface of said rotatable drum and into a stratum corneum of a user;

a fixed inner drum for supporting said rotatable drum and having at least one radial opening therein for providing said medicament to the microprotrusion lumens;

a supply of said medicament disposed within the inner drum; and

a housing for supporting the rotatable drum and the inner drum, said housing having an opening for exposing an arcuate portion of said rotatable drum in order to enable rotation of said rotatable drum by rolling said rotatable drum against a user's skin.

52. (New) A multi-site injection system comprising:

a guide plate having a plurality of openings therethrough;

a needle plate having a plurality of needles projecting therefrom, each needle being aligned with a corresponding opening in said guide plate, said needle plate being movable from a first position with the needles positioned behind a top surface of said guide plate to a second position with the needles projecting from the top surface through the openings; and

a plunger base for moving said needle plate from the first to the second position.

53. (New) The system according to claim 52 wherein said plunger bore includes a reservoir for medicament and needles include lumen therethrough in communication with said reservoir for delivery of the medicament into a stratum corneum of a users skin.

54. (New) The system according to claim 52 wherein the needles and opening are arranged in a symmetric radial pattern.

55. (New) The system according to claim 52 wherein the needles and opening are arranged in an asymmetric radial pattern.

56. (New) A multi-site injection system comprising:
a handle;
a syringe supported by said handle and including a plunger for dispensing a fluid medicament from said syringe;
a manifold attached to one end of said handle and in fluid communication with said syringe;
a plurality of needles, protruding from said manifold, for delivery of said fluid medicament from said manifold and into a stratum corneum of a user.

57. (New) The system according to claim 56 wherein said manifold is disposed perpendicular to said handle.

58. (New) The system according to claim 56 wherein said manifold comprises a plurality of concentric conduits interconnected with radial conduits.

59. (New) The system according to claim 56 wherein the concentric conduits are radially spaced apart from one another.

60. (New) The system according to claim 59 further comprising a transparent sheet interconnecting the concentric and radial conduits for enabling visual orientation of said manifold onto a patients skin by manipulation of said handle.

61. (New) A multi-site injection system comprising:
a shell including a top and a bottom;
a plurality of needles protruding from the shell bottom, each needle including a lumen extending through the shell bottom;

a membrane disposed between the shell top and shell bottom;

an inlet for introducing a fluid between the shell top and the shell bottom;

and

a diverter for selectively directing fluid between the membrane and the shell bottom and between the membrane and the shell top.

62. (New) The system according to claim 61 wherein said diverter includes a manually operated valve.